Village of Blissfield Water Rate Report

September 1, 2020



Prepared By:

Name	Title Employer		Email
John Holland	Circuit Rider	Michigan Rural Water Association	jholland@mrwa.net
Bradon Hudson	Treasurer	Village of Blissfield	
Joe Frey	Village Manager	Village of Blissfield	
Nora	WTP Operator	Village of Blissfield	
Randy Retan	WTP Operator	Village of Blissfield	

Cover sheet

- 1 Index
- 2 Introduction to Water Rates
- 3 **Current Rate Structure Comments**
- 4 Overall Conclusion
- 5 **Executive Summary**
- 6 Starting Sheet
- 7 **Current Water Rates**
- 8 Number of Customers - REU's
- 9 Units of Water Sold
- 10 Current Income
- 11 Non Sales Income
- 12 Labor & Benefits
- 13 **Operational Expenses**
- 14 Individual Bond List
- 15 Bonds - Loans
- **FINAL ANALYSIS** 16
- 17 Rates Summary
- 18 Typical Monthly Bill
- 19 Rates Summary Entity 2
- 20 Confirmation of Income
- 21 Replacement and Capital Explanation
- 22 Asset Replacement & Rehab
- 23 Asset Replacement & Rehab - page 2
- Capital Improvement Program
- 25 Capital Improvement Projects - Items 1
- 26 Capital Improvement Projects - Items 2
- 27 Capital Improvement Projects - Items 3
- 28 Capital Improvement Projects - Items 4
- 29 Capital Improvement Projects - Items 5
- 30 Capital Improvement Projects - Items 6 Capital Improvement Projects - Items 7 31
- 32 Capital Improvement Projects - Items 8
- Capital Improvement Projects Items 9 33
- Capital Improvement Projects Items 10 34
- 35 Capital Improvement Projects - Items 11
- Capital Improvement Projects Items 12 36
- 37 Capital Improvement Projects - Items 13 38 Capital Improvement Projects - Items 14
- Capital Improvement Projects Items 15 39
- 40 Projected C.O.L.
- 41 Step Increase Consumption - 1 - 5 year step for rate increase
- 42 Step Increase Fixed Expenses / Base Rate - 2 year step for rate increase
- 43 Step Increase Summary Years 1 - 5
- 44 Step Increase Summary By entity
- 45 Typical Bill First Year Step Increase
- 46 Typical Bill First Year Step Increase Continued

INTRODUCTION

Quality drinking water is an essential public service provided to residents. Without a water system the community would cease to exist. Over many years your community has invested in the essential infrastructure and services necessary to provide it's residents with safe and reliability drinking water.

The construction and maintenance of this infrastructure is one of the most costly investments the residents in your community will make. Community officials strive to ensure that the resident's investment in these facilities is based on sound judgment, cost effectiveness, and sustainable financing for the present and future. The purpose of analyzing utility rates is to ensure;

- a) Compliance with federal and state regulations governing utility rates, and
- b) That adequate revenue is collected through service charges to support the cost of providing the service and
- c) That the rates are equitable to all users of the service.

That is, each user's share of the cost is proportionate to their use of the system.

REVENUE REQUIREMENT = TOTAL SYSTEM COST

Ensuring that the revenue covers the total system cost means the service is "sustainable". That is, the system will serve the present needs and will continue to meet future needs.

Total system cost is comprised of the following cost components:

Operation & Maintenance (O&M) expenses. These are the daily costs of labor, materials, supplies, utilities, etc. necessary to operate and maintain the facilities.

Replacement expenses. These are costs to replace operating equipment with a useful life of 20 years or less. The sum of O&M expense and replacement expense is referred to as OM&R.

Capital improvements. These are costs to replace structural components with useful life greater than 20 years and or to expand and improve the current facilities.

Administrative expenses. These are the costs of general management, financial management, meter reading, and billing & collections.

Debt service expenses. These are the annual costs of loans or bond repayment used to finance construction and generally includes facilities and structures with a useful life of 20 years of more.

Current Rate Structure VILLAGE OF BLISSFIELD

The current rate structure for the Village of Blissfield's **Water System** is reasonable but could use a few minor changes to recover the cost of operating the system in a more equitable manner.

Currently the Village charges a cost per 1,000 gallons of water used. The rate per 1,000 gallons is the same regardless of who the customer is or how much they use. Everyone pays the same rate starting from the first gallon used.

The debt is collected through the base rate with all customers paying the same rate on a monthly basis.

Currently the Village charges a base rate or Ready to Serve charge which is invoiced every monthly (which includes the debt). The base rate is charged to everyone based on the size of the meter serving the customer.

Larger water users take up capacity of the system. The system has a limited capacity (gallons) therefore if one large customer takes up the capacity of 10 residential homes they should pay a base rate equivalent to the 10 residential homes. Larger volume users also drive the size of certain components of the water system. For instance having several large buildings that house factories or schools will require larger water mains and a larger water tower to provide firefighting ability for these larger buildings. It is thus fair that they pay a larger portion of the debt and some fixed expenses compared to a homeowner who uses 3,000 gallons per month.

Ultimately our goal is to collect the money needed to maintain the water system in the most equitable manner possible. Insuring that everyone pays their fair share of the cost.

Overall Conclusion

VILLAGE OF Blissfield

After the June 1st 2020 increase in water rates, the Village is basically generating enough revenue to cover every day basic expenses, replacement of existing equipment, and a portion of capital improvement projects (CIP) necessary to providing safe drinking water for the community.

Based upon the current Ready to serve (base) rate of \$49.18 for a 3/4 inch meter, \$47.54 is applied to labor & benefits, operation & maintenance, and debt (both principal and interest) payments, and \$0.26 applies to equipment replacement. This leaves \$1.38 applied to CIP. CIP should be funded at \$4.46 as per figures provided by the Village. This leaves a deficit of \$3.08.

Additionally, at the current consumption charge of \$5.95, \$5.28 applies to labor & benefits, operation & maintenance, and debt (both principal and interest) payments, and \$0.05 applies to equipment replacement. This leaves \$0.62 for CIP projects which should be funded at \$0.83. This leaves a deficit of \$0.21 per 1000 gallons of water sold.

Since the Village has recently increased rates, the Village may wish to increase rates gradually over the next couple of years to reach the level of desired CIP funding. The Village should be mindful that the rates should be raised every year to kept pace with inflation. Therefore, spreading the CIP increase over a period of time should include a cost of living increase.

It is recommended that water systems maintain between 3 and 9 months of operational expenses (\$440,000 to \$1,000,000 for the Village) for emergency and unanticipated funding. Currently, the reserve funds in the water fund are insufficient to meet this level of reserve funding.

Furthermore, if the Greenplains Ethanol Plant returns to operation, a reanalysis of the rates should be performed.

The Village needs to know exactly how much money will be needed over the next 20 years for these major maintenance expenses / equipment replacement and insure they have money in the bank for these expenditures. Keeping in mind that to much money is almost as bad as not having enough

	Blissfield Water							
	CONCLUSION OF ANALYSIS							
COST PER CURRENT RATES CALCULATED RATES DIFFERE								
1,000 GAL.	\$5.95	\$6.00	\$0.05					
	С	URRENT "BASE RATE" CHARGE F	PER MONTH					
METER SIZE - INCHES	CURRENT RATES	CALCULATED RATES	DIFFERENCE					
3/4	\$49.18	\$55.11	\$5.93					
1	\$68.86	\$92.03	\$23.17					
1 1/4	\$0.00	\$128.96	\$128.96					
1 1/2	\$123.35 \$183.51 \$6							
2	\$201.60	\$293.73	\$92.13					
3	\$418.01	\$588.02	\$170.01					
4	\$732.72	\$918.67	\$185.95					

The above rates are based on an input budget of \$1,638,525
The above rates are based on invoicing the following gallons of water / sewer
The above rates are based on the following number of customers 1,512

The above rates are based on the following number of Residential Equivalent Units (REU's) 20,340

If all numbers listed above stay true the new calculated rates will generate the input budget "exactly". Not a penny more or a penny less.

This Rate Analysis uses "Full Cost Pricing" to determine the user fees.

The above table shows the Current Rate, the new Calculated Rate, and the difference between the current and new rate changes.

Full Cost Pricing Is:

Maintaining your system's financial stability by ensuring a sufficient revenue stream.

Collect and reserve the funds needed to cover the costs of future asset rehabilitation and compliance with future regulations, among other things.

Plan ahead for reasonable, gradual rate increases when necessary.

Deliver a fair priced, high-quality drinking water to your customers now and in the future.

NOTE:

The above CALCULATED RATES will generate only enough to meet the current budget input into the rate

BACKGROUND INFORMATION STARTING SHEET							
Please be sure to review the results of this rate evaluation with an attorney							
Name of Community :	Blissfield Water						
Population Served :	3340						
BUDGET USED FOR YEAR OF	2020						
Current Rate Structure							
Are bills based on 1,000 gallons units or 100 cubic feet units?	1,000						
Number of Residential Customer Invoices per Year	12						
What are the dates of the Fiscal Year	October 1st						
Year of Last Rate Increase	2020						
This rate evaluation was completed using the following information							
Reliability Study / General Plan	No						
Capital Improvement Plan	Yes						
Water Tower Inspection Report	Yes						
Well Inspection Report	N/A						
System Evaluations (MDEQ etc)	No						
Audits	No						
List the names of the different Entities Served - Originating Entity	Blissfield Water						
2nd Entity	Out of Village						
3rd Entity	Greenplains						

Blissfield Water CURRENT RATE CHARGES										
Customers Are Invoice	Customers Are Invoice: MONTHLY PER									
	RATE CLASS 1									
Blissfield Water										
TYPE OF WATER UNITS 1,000 GALLONS										
COST PER WATER UNIT \$5.95 Notes										
INVOICES PER YEAR	12									
METER SIZE - INCHES	CURRENT "BASE RATE" CHARGE	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME						
3/4	\$49.18	1467	12	\$865,765						
1	\$68.86	2	12	\$1,653						
1 1/2	\$123.35	3	12	\$4,441						
2	\$201.60	5	12	\$12,096						
3	\$418.01	2	12	\$10,032						
4	\$732.72	7	12	\$61,548						
TOTALS 1486 \$955,535										

	RATE CLASS 2							RATE CLAS	SS 3		
	Out of Village							Greenpla	ins		
TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entity # 2 vs. 1				TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entity # 3 vs 1	NOTES		
COST PER WATER UNIT	\$11.90	2.00	Notes	Notes			\$4.10	0.69			
INVOICES PER YEAR	12					INVOICES PER YEAR	12				
METER SIZE - INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 2 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 3 vs 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME
3/4	\$98.36	2.00	25	12	\$29,508	3/4		0.00		12	\$0
1	\$137.72			12	\$0	1				12	\$0
1 1/2	\$246.70			12	\$0	1 1/2				12	\$0
2	\$403.20			12	\$0	2				12	\$0
3	\$836.02			12	\$0	3				12	\$0
4	\$1,465.44			12	\$0	4	\$20,224.22		1	12	\$242,691
			25		\$29,508				1		\$242,691

Current Rate Charges

Currently customers are charged based on two factors

Consumption Charge, Which is based on gallons of water that goes through the customer's water meter. Sewage usage is based on water usage. Customers are currently invoiced per unit of water at the listed price.

A "Base Rate" charge based of \$49.18 for a 3/4" meter, this fee increases based on the size of the customers water meter, which is listed in inches. Some customers are invoiced monthly, others monthly/The number of meters listed above does NOT include irrigation meters which are not invoiced a "Base Rate" charge.

	Blissfiel										
		d Water	Out of V	/illage	Greenp	olains					
METER SIZE - INCHES	NUMBER OF METERS	INVOICE FREQUENCY	NUMBER OF METERS	INVOICE FREQUENCY	NUMBER OF METERS	INVOICE FREQUENCY	CUSTOMERS ACTUAL	SELECTED METER EQUIVALENT	CALCULATED METER EQUIVALENT	EQUIVALENT REU'S PER BILLING CYCLE	ANNUAL EQUIVALENT REU'S (UNITS)
3/4	1467	12	25	12	0	12	1492	1.00	1.00	1,517	18,204
1	2	12	0	12	0	12	2	1.67	1.67	3	40
1 1/2	3	12	0	12	0	12	3	3.33	3.33	10	120
2	5	12	0	12	0	12	5	5.33	5.33	27	320
3	2	12	0	12	0	12	2	10.67	10.67	21	256
4	7	12	0	12	1	12	8	16.67	16.67	117	1,400
TOTAL	1486		25		1		1512			1,695	

TOTAL <u>EQUIVALENT</u> ANNUAL REU'S 20,340 PERCENT REDUCTION 0.00% 0.0

REU REDUCTION PER BILLING CYCLE

20,340 ANNUAL <u>EQUIVALENT</u> REU'S USED FOR RATE EVALUATION

The table above list the number of water meters being invoiced for each size water meter for each entity being served.

BASED ON THE REQUEST OF THE WATER SYSTEM - THE REU RATIO USED FOR THIS EVALUATION IS THE AWWA METER FLOW RATIO BEING USED BY THE WATER SYSTEM.

NOTES

Blissfield Water	2020	•				UI	NITS OF W	TER	INVOICED TO CUST	OMERS				
USAGE REPORTED IN USAGE REPORTED IN	GALLONS CALENDAR YEARS 2018	PERCENT OF TOTAL	2019	PERCENT OF TOTAL	2020	PERCENT OF TOTAL	AVERAGE PERCENT		AVERAGE	MAX. YEAR	MIN. YEAR	PERCENT DIFFERENCE FROM MAX. TO MIN. YEAR	ANTICIPATED PERCENT REDUCTION NEXT YEAR	THE PROGRAM USES THE LOWEST YEAR UNITS USED IN RATE EVALUATION
Blissfield Water	94,485,830	39.7%	94,707,101	36.4%	83,775,177	47.6%	41.3%		90,989,369	94,707,101	83,775,177	12%	0%	83,775,177
Out of Village	1,259,790	0.5%	1,455,950	0.6%	1,316,650	0.7%	0.6%		1,344,130	1,455,950	1,259,790	13%	0%	1,259,790
Greenplains	141,968,381	59.7%	163,851,164	63.0%	90,808,790	51.6%	58.1%		132,209,445	163,851,164	90,808,790	45%	100%	0
TOTALS	237,714,001		260,014,215		175,900,617				224,542,944	260,014,215	175,843,757	23%		85,034,967
												GALLON	S OF REDUCTION	90,808,790
	GALLONS USED FOR EVALUATION							85,034,967						

The Volumes listed above are only those gallons that are a revenue source.

The gallons listed above do not include any water NOT invoiced for winter "Let Runs"

The gallons listed above were generated by the Village. The Village takes full responsibility for the accuracy of these numbers.

This table shows the gallons of water invoiced to customers. The Village is showing a large decrease in usage over the last year. This is due to the Greenplains Ethanol plant ceasing operations. For purposes of this evaluation we used the lowest for each class. We also anticipated a reduction in usage of 0 % for both Village and out of Village water and 100% reduction for Greenplains to follow the trend.

Rate evaluations must be based on a worst case scenario. Taking into account factors that could influence the amount of water sold invoiced, (which is based on water usage) These factors include;

A wet rainy summer will result in less outdoor activities and lawn sprinkling

Technology alone will account for a reduction in use per person, things like water efficient appliances, washing machines etc. and water efficient shower heads, toilets etc. will naturally reduce the water use per customer.

Loss of a major water user because of things like a fire or a business that chooses to relocate into another community, or just closes its doors can have an impact on gallons of water sold.

Note: Years are FY17/18 = 2018, FY18/19 = 2019 and FY2019/20 = 2020 with last two month estimated water useage

TOTAL COMBINED	TOTAL COMBINED <u>CURRENT</u> INCOME WATER UNITS = 1,000							ssfield Wa	10 m
FISCAL YEAR	2020			INVOICES PER YEAR :	= 12		DII	ssileid wa	ter
								•	T
CURRENT METER /	BASE RATE I	NCOME			_	T			
			Blissfield Water	er	Out of Village	Greenplains			
METER SIZE - INCHES	CURRENT RATES	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	ANNUAL INCOME	ANNUAL INCOME	INCOME	% INCOME	% TOTAL INCOME
3/4	\$49.18	1,467	12	865,765	\$29,508	\$0	\$895,273	91%	48%
1	\$68.86	2	12	1,653	\$0	\$0	\$1,653	0%	0%
1 1/4	\$0.00	0	12	0	\$0	\$0	\$0	0%	0%
1 1/2	\$123.35	3	12	4,441	\$0	\$0	\$4,441	0%	0%
2	\$201.60	5	12	12,096	\$0	\$0	\$12,096	1%	1%
3	\$418.01	2	12	10,032	\$ 0	\$0	\$10,032	1%	1%
4	\$732.72	7	12	61,548	\$0 \$0	\$0 \$0	\$61,548	6%	3%
6 8	\$0.00 \$0.00	0 0	12 12	0	\$0 \$0	\$0 \$0	\$0 \$0	0% 0%	0% 0%
10	\$0.00	0	12	0	\$0 \$0	\$0 \$0	\$0 \$0	0%	0%
BASE RATE INCOME				\$955,535	\$29,508	\$0	\$985,043		53%
CURRENT VOLUME	SALES INCO	ME							
	Disofield Water				Out of Village	Creennleine	TOTAL 0		
GALLONS / CUFT SOLD	83,775,177				Out of Village 1,316,650	Greenplains 90,808,790	TOTALS	1	
						·	175,900,617		1
COST PER UNIT					\$11.90	\$4.10		% INCOME	
WATER SALES INCOME	\$498,462				\$15,668	\$372,316	\$886,446	47%	
	TO	OTAL METER S	SALES INCOME	\$985,043		This page			
			SALES INCOME	\$886,446		calculates			
						out what the			
			TOMER SALES	\$1,871,489		actual		ENT OF INCO	
			ALL SOURCES	\$0 \$4.974.490		income	BASE RATE		E SALES
			ALL SOURCES	\$1,871,489		should be	53%	47	7%
	NE		RATE BUDGET	\$1,638,525					
		SCHEDULED	PROFIT / LOSS	\$232,964					

Blissfield Water			
NON-SALES INCOME			
NON-SALES INCOME	2018	2019	2020
Water Connection Charges			\$ 1,500
Water Samples			\$ 25,000
Tank Water			\$ 36,000
Water Late Charges			\$ 27,000
Water Misc			\$ 10,000
TOTAL INCOME (NON SALES)	\$ -	\$ -	\$ 99,500
Portion of (Non S	ales) Revenue	Guaranteed :	\$ -
Percent Applied Towards Fixed Rate RTS	Charge - PERCEN	IT applied per REU	50%
ANNUAL DOLLARS APPLIED TOWAR	DS FIXED BUDGET	- BASE RATE - RTS	\$ -
ANNUAL DOLLARS APPLIED TO	WARDS <u>VARIABLE E</u>	BUDGET - PER UNIT	\$ -

LABOR & BENEFITS	PROPOSED BUDGET
Blissfield Water	FOR NEXT FISCAL YEAR
	2020
2020	RATE BUDGET
LABOR & BENEFITS	ANNUAL BUDGETED
Water Distribution	7.11.107.12.202021.22
Wages	\$74,000
Benefits	
Water Department	
Water Operator Wages	\$263,000
DPW Wages	
Water Benefits	\$126,400
LABOR & BENEFITS	\$503,720
LABOR & BENEFITS - ADMINISTRATION- B	
Water Clerk/Treasurer	\$50,925
Admin Wages	
Admin Benefits	\$32,950
LABOR & BENEFITS - ADMINISTRATION-	A100 115
BILLING ETC	\$109,115
	4
LABOR & BENEFITS	\$503,720
SUB-TOTAL EXPENSES	\$612,835
Additional Cost of Inflation Increase	0.00%
LABOR & BENEFITS	<u>\$612,835</u>
ARE EMPLOYEES MAKING A LIVABLE WAGE AND RECEIVI	NG INCREASES ANNUALLY?

	PROPOSED
	BUDGET FOR
OPERATION & MAINTENANCE EXPENSES	NEXT FISCAL
	YEAR
2020	2020
Blissfield Water	RATE BUDGET
SYSTEM EXPENSES	
	ANNUAL BUDGETED
Water Distribution	#7 50
Water distribution Tools and Supplies Water distribution Material used	\$750 \$0
Water Distribution Outside contractors	\$36,000
Water Distribution Outside Contractors Water Tower Electric	\$3,000
Water Dist. Equipment Maintenance	\$3,000
Water Dist. Equipment Rental	\$12,000
Water Dist. Misc.	\$750
Water Dist. Education	\$3,000
Water Dist. New Equipment	\$20,000
Water Department	00.000
WTP Tools and Supplies	\$3,200
WTP Leb Supplies	\$193,000 \$18,000
WTP Lab Supplies WTP Clothing	\$18,000
WTP Clothing WTP Outside Contractor	\$123,000
WTP Office Supplies	\$1,000
WTP Engineering	\$4,500
Dumpster Waste at WTP	\$30,000
Sludge System Chemicals	\$26,000
WTP Telephone	\$1,600
WTP Insurance	\$8,300
WTP Electric	\$90,000
WTP Gas	\$35,000
WTP Building Maint.	\$4,500
WTP Equipment Maintenance	\$20,800
Lab Water Testing	\$13,000 \$3,850
WTP Equipment Rental WTP Education	\$3,500
WTP Education WTP New Equipment	\$10,000
WTP New Lab Equipment	\$3,500
Water	\$5,000
Sewer	\$2,400
SYSTEM EXPENSES	\$681,150
OPERATIONAL & OTHER EXPENSES	
Water Admin Office Supplies	\$7,000
Water Admin Office Audit	\$2,768
Workshops and Conferences	\$1,200
Water Maint. Agreement	\$4,000
OPERATIONAL & OTHER EXPENSES	\$14,968
SYSTEM EXPENSES	\$681,150
SUBTOTAL OPERATIONAL EXPENSES	\$696,118
CONTINGENCY	
SUBTOTAL	\$696,118
COST OF INFLATION INCREASE	
OPERATION & MAINTENANCE EXPENSES	\$696,118
	4000 , 110

Operating Expenses are those operation and maintenance (O&M) expenses that occur while providing water service. These expenses typically increase annually due to inflation, and increased maintenance costs as systems age.

The expenses listed above do not include Depreciation
These expenses do not include any interest paid on debt or one time CIP

Blissfield Water		Notes on loans
2020		
BOND INSTALLMENT ANNUAL PAYMENT SCHEDULE		
NAME OF LOAN	DEQ 7023-02	WATER - CIP
PAID BY RATES OR OTHER ?		
IF OTHER - SOURCE		
IF OTHER - \$ CONTRIBUTION FROM OTHER		
ii omen pominentinom omen		
DATE OF ISSUE	2002	2012
DATE OF MATURITY	2022	2032
IS THERE A RESERVE REQUIREMENT		No
WHAT IS THE REQUIRED ANNUAL RESERVE \$\$		
CURRENT BALANCE IN THE REQUIRED RESERVE		
DATE OF - PRINCIPAL & INTEREST PAYMENT	4/1/2020	11/1/2020
\$ AMOUNT OF THIS INTEREST PAYMENT		\$24,938
\$ AMOUNT OF PRINCIPAL THIS PAYMENT		\$80,000
DATE OF - INTEREST PAYMENT		5/1/2020
\$ AMOUNT OF THIS INTEREST PAYMENT		\$24,938
CURRENT CASH BALANCE IN THIS ACCOUNT		
ORIGINAL LOAN AMOUNT	\$5,500,000	\$1,650,000
	+- ,,	4 1,000,000
	ANNUAL PAYMENTS	ANNUAL PAYMENTS
LIST THE COMBINED ANNUAL PRINCIPAL & INTEREST	NEEDED FROM RATE	NEEDED FROM RATE
PAYMENTS HERE	CHARGES	CHARGES
	DEQ 7023-02	WATER - CIP
2020	\$45,000	\$105,972
2021	\$45,000	\$128,279
2022	\$45,000	\$129,987
2023		\$131,496
2024		\$127,905
2025		\$129,214
2026		\$125,423
2027		\$121,633
2028		\$142,344
2029		\$142,456
2030		\$137,469
2031		\$132,481
2032		\$127,494
2033		
2034		
2035		
2036 2037		
2037		
2036		
PAID OFF IN YEAR OF	2022	2032

Blissfield Water	
LOANS, BONDS, INTEREST, ANNUAL PAY	MENT
DEQ 7023-02	\$45,000
WATER - CIP	\$105,972
\$0	\$0
TOTAL ANNUAL PAYMENTS	\$ 150,972.25
No Tax revenue or special assessment revenue is applied to	these payments
PROPOSED NEW DEBT - TOTAL FUNDED	
INTEREST RATE	
LENGTH OF LOAN (YEARS)	
ANNUAL PAYMENT	0
TOTAL DEBT - NEW & CURRENT	<u>\$150,972</u>
WHAT YEAR IS LOAN PAID OFF	
IS DEBT LISTED SEPARATELY ON WATER BILL	
IF USDA RD LOAN ANNUAL RESERVE FUNDING	\$0
List any additional notes on the loans here.	

S					
					202
ANNUAL BUDGET	PERCENT FIXED EXPENSES	BASE RATE FIXED EXPENSES	COST PER 3/4 METER	CONSUMPTION VARIABLE EXPENSES	VOLUME COST PER UNIT
\$612,835	70%	\$428,985	\$21.09	\$183,851	\$2.13
\$696,118	70%	\$487,283	\$23.96	\$208,835	\$2.42
\$1,308,953		\$916,267	\$45.05	\$392,686	\$4.55
\$45,000	70%	\$31.500	\$1.55	\$13.500	\$0.16
\$105,972	70%	\$74 181	\$3.65	\$31 7 92	\$0.37
	1070	\$105,681	\$5.20	\$45,292	\$0.52
\$1,459,925		\$1,021,948	\$50.24	\$437,978	\$5.08
NON OP	ERATING INCOME REDI	UCTION PER REU / UNIT	\$0.00		\$0.00
	RATE CHARGE	E FOR O&M AND LOANS	\$50.24		\$5.08
		CURRENT RATE	\$49.18		\$5.95
		INCREASE	\$1.06		(\$0.87)
		PERCENT INCREASE	2%		-15%
4,000		8%			
				1	
V ,			•	**, **	\$0.04
\$168,000	54.5%	\$91,560	\$4.50	\$76,440	\$0.89
\$178,600		\$98,980	\$4.87	\$79,620	\$0.92
\$1,638,525		\$1,120,928	\$55.11	\$517,598	\$6.00
\$1,871,489	i,				
\$1 638 525		•		**	
		ψ1,120,020	0.00	ψ011,000	0.00
PER		MONTH	PEE 44	1,000 GAL.	* C 00
			\$ <u>35.11</u>	,	\$ <u>6.00</u>
		CURRENT RATES	\$49.18		\$5.95
		INCREASE OF	\$5.93		\$0.05
		PERCENT INCREASE	12.1%		0.8%
		Out of Village	<u>\$110.22</u>		<u>\$12.00</u>
			EVERY MILLION GALLO	NS GENERATES REVENUE OF	\$5,998
NO		ADDITIONAL REVENUE GENERATED	\$120,601		\$4,083
NO				\$124,684	
METER SIZE		\$1.00 INCREASE GENERATES	\$20,340		\$85,035
	\$612,835 \$696,118 \$1,308,953 \$45,000 \$105,972 \$150,972 \$1,459,925 NON OP \$10,600 \$168,000 \$178,600 \$1,638,525 \$1,871,489 \$1,638,525	\$612,835 70% \$696,118 70% \$1,308,953 \$45,000 70% \$105,972 70% \$150,972 \$1,459,925 NON OPERATING INCOME REDIRATE CHARGI \$178,600 \$168,000 \$41,638,525 \$1,871,489 \$1,638,525 \$1,871,489 \$1,638,525 \$1,871,489	\$612,835 70% \$428,985 \$696,118 70% \$4428,985 \$696,118 70% \$445,000 \$916,267 \$11,308,953 \$916,267 \$105,972 70% \$74,181 \$150,972 \$105,681 \$105,681 \$105,972 \$105,681 \$105,681 \$105,972 \$105,681 \$105,681 \$105,972 \$105,681 \$105,681 \$105,681 \$105,972 \$105,681 \$1	Sef12,835	FIXED EXPENSES FIXED EXPENSES 3/4 METER VARIABLE EXPENSES \$612,835 \$70% \$428,783 \$23.96 \$208,835 \$1,308,953 \$13,000 \$1.55 \$13,500 \$155,972 70% \$74,181 \$3.65 \$31,792 \$150,972 \$105,681 \$5.20 \$45,292 \$1,021,948 \$50.24 \$437,978 \$10,000 \$70% \$74,181 \$3.65 \$31,792 \$150,972 \$105,681 \$5.20 \$45,292 \$1,021,948 \$50.24 \$437,978 \$10,000 \$1.55 \$13,500 \$1.55 \$13,500 \$1.55 \$13,500 \$1.55,972 \$105,681 \$5.20 \$45,292 \$1,021,948 \$50.24 \$437,978 \$10,000 \$1.55 \$13,500 \$1.55 \$13,500 \$1.55 \$13,792 \$10,681 \$10,000 \$1.55 \$13,798 \$10,000 \$1.55 \$13,798 \$10,000 \$1.55 \$13,798 \$10,000 \$1.55 \$13,500 \$10,000

2020	Blissfield Water											
		Blissfie	ld Water			Out of Village	Greenplains	0	0	0		
PER 1,000 GAL.	\$6.	00	\$5.9	95		\$0.05		\$12.00	\$4.13	\$6.00	\$6.00	\$6.00
	NE	w	CURR	ENT		DIFFERENCE PER MONTH		NEW	NEW	NEW	NEW	NEW
METER SIZE	BASE RATE PER MONTH	METER RATIO FACTOR BEING USED	BASE RATE PER MONTH	CURRENT / OLD METER RATIO	PERCENT INCREASE		В	ASE RATE PER MONTH				
3/4	\$55.11	1.00	\$49.18	1.00	12.1%	\$5.93		\$110.22				
1	\$92.03	1.67	\$68.86	1.40	33.7%	\$23.17		\$184.06	\$0.00	\$0.00	\$0.00	\$0.00
1 1/4	\$128.96	2.34	\$0.00	0.00	#DIV/0!	\$128.96		\$257.91	\$0.00	\$0.00	\$0.00	\$0.00
1 1/2	\$183.51	3.33	\$123.35	2.51	48.8%	\$60.16		\$367.03	\$0.00	\$0.00	\$0.00	\$0.00
2	\$293.73	5.33	\$201.60	4.10	45.7%	\$92.13		\$587.46	\$0.00	\$0.00	\$0.00	\$0.00
3	\$588.02	10.67	\$418.01	8.50	40.7%	\$170.01		\$1,176.03	\$0.00	\$0.00	\$0.00	\$0.00
4	\$918.67	16.67	\$732.72	14.90	25.4%	\$185.95		\$1,837.34	\$0.00	\$0.00	\$0.00	\$0.00
6	\$0.00	0.00	\$0.00	0.00	#DIV/0!	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	0.00	\$0.00	0.00	#DIV/0!	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

These are the rates calculated for each meter size for each entity served. Also for the cost per unit of water sold for each entity.

\$0.00

0.00

#DIV/0!

0.00

10

\$0.00

TYPICAL BILL USING NEW RATES Blissfield Water										
METER SIZE - INCHES	GALLONS USED	VOLUME CHARGE	BASE RATE CHARGE	NEW BILL	OLD BILL	CHANGE IN BILL	PERCENT INCREASE			
3/4	3,000	\$17.99	\$55.11	\$73.10	\$67.03	\$6.07	9%			
3/4	4,000	\$23.99	\$55.11	\$79.10	\$72.98	\$6.12	8%			
3/4	12,000	\$71.98	\$55.11	\$127.09	\$120.58	\$6.51	5%			
3/4	15,000	\$89.97	\$55.11	\$145.08	\$138.43	\$6.65	5%			
3/4	20,000	\$119.96	\$55.11	\$175.07	\$168.18	\$6.89	4%			
1	50,000	\$299.90	\$92.03	\$391.93	\$366.36	\$25.57	7%			
1 1/4	20,000	\$119.96	\$128.96	\$248.92	\$119.00	\$129.92	109%			
1 1/2	150,000	\$899.70	\$183.51	\$1,083.22	\$1,015.85	\$67.37	7%			
2	50,000	\$299.90	\$293.73	\$593.63	\$499.10	\$94.53	19%			
3	100,000	\$599.80	\$588.02	\$1,187.82	\$1,013.01	\$174.81	17%			
4	150,000	\$899.70	\$918.67	\$1,818.37	\$1,625.22	\$193.15	12%			
6	265,106	\$1,590.11	\$0.00	\$1,590.11	\$1,577.38	\$12.73	1%			
8	229,492	\$1,376.50	\$0.00	\$1,376.50	\$1,365.48	\$11.02	1%			
10	1,500,000	\$8,997.03	\$0.00	\$8,997.03	\$8,925.00	\$72.03	1%			
GALLONS INC	LUDED MIN BILL			0	0					

	Blissfield Water	Blissfield Water	DIFFERENCE PER MONTH	DIFFERENCE PER MONTH		Out of Village	
PER 1,000 GAL.	\$6.00	\$5.95	\$0.05		\$12.00	\$11.90	
	NEW	CURRENT			NEW	CURRENT	DIFFERENCE
METER SIZE	BASE RATE PER MONTH	BASE RATE PER MONTH					
3/4	\$55.11	\$49.18	\$5.93	\$1.98	\$110.22	\$98.36	\$11.86
1	\$92.03	\$68.86	\$23.17	\$7.72	\$184.06	\$137.72	\$46.34
1 1/2	\$183.51	\$123.35	\$60.16	\$20.05	\$367.03	\$246.70	\$120.33
2	\$293.73	\$201.60	\$92.13	\$30.71	\$587.46	\$403.20	\$184.26
3	\$588.02	\$418.01	\$170.01	\$56.67	\$1,176.03	\$836.02	\$340.01
4	\$918.67	\$732.72	\$185.95	\$61.98	\$1,837.34	\$1,465.44	\$371.90

These are the rates calculated for each meter size for each entity served. Also for the cost per unit of water sold for each entity.

CONFIRMATION OF INCOME - BASED ON CALCULATED RATES

	Blissfield Water	Out of Village	Greenplains	REVENUE
	Name Coat was their of Water Cold	1	<u> </u>	NEW RATES
DED 4 000 CAL	New Cost per Unit of Water Sold	£42.00	\$4.13	NEW KATES
PER 1,000 GAL.	\$6.00	\$12.00		
UNITS Sold	83,775	1,260	0	85,035 \$517,598
Income	\$502,485	\$15,112	\$0	\$317,390
PERCENT OF USAGE	99%	1%	0%	
PERCENT REVENUE	97%	3%	0%	
	NON SALES INCOM	E ADDI IED TO VAL	NABLE BUDGET	¢o.
	NON SALES INCOM			\$0
	TOTAL ANTICIP	ATED REVENUE F	PER UNIT SALES	\$517,598
METER SIZE	NEW BASE RATE PER MONTH			
3/4	\$55.11	\$110.22	\$0.00	
	1,467	25	0	
NO. CUSTOMERS	12	12	12	
NVOICES PER YEAR		1	0	
ANNUAL INVOICES	17,604	300		
INCOME	\$970,142.30	\$33,065.52	\$0.00	\$1,003,208
1	\$92.03	\$184.06	\$0.00	
NO. CUSTOMERS	2	0	0	
NVOICES PER YEAR	12	12	12	
ANNUAL INVOICES	24	0	0	
INCOME	\$2,208.78	\$0.00	\$0.00	\$2,209
1 1/4	\$128.96	\$257.91	\$0.00	
NO. CUSTOMERS	0	0	0	
NVOICES PER YEAR	12	12	12	
ANNUAL INVOICES	0	0	0	
INCOME	\$0.00	\$0.00	\$0.00	\$0
1 1/2	\$183.51	\$367.03	\$0.00	40
	3	0	0	
NO. CUSTOMERS	12	-		
NVOICES PER YEAR		12	12	
ANNUAL INVOICES	36	0	0	
INCOME	\$6,606.49	\$0.00	\$0.00	\$6,606
2	\$293.73	\$587.46	\$0.00	
NO. CUSTOMERS	5	0	0	
NVOICES PER YEAR	12	12	12	
ANNUAL INVOICES	60	0	0	
INCOME	\$17,623.92	\$0.00	\$0.00	\$17,624
3	\$588.02	\$1,176.03	\$0.00	
NO. CUSTOMERS	2	0	0	
NVOICES PER YEAR	12	12	12	
ANNUAL INVOICES	24	0	0	
INCOME	\$14,112.36	\$0.00	\$0.00	\$14,112
4	\$918.67	\$1,837.34	\$0.00	. /
NO. CUSTOMERS	7	0	1	
NVOICES PER YEAR	12	12	12	
	84	0	12	
ANNUAL INVOICES INCOME			+	¢77 460
INCOME	\$77,168.31	\$0.00	\$0.00	\$77,168
			Fixed Income	\$1,120,928
	ANTICIPATED LOSS O		<u> </u>	\$0
			RATED BASE RATE	\$1,120,928
	NON SA	LES INCOME APPLIED	TO FIXED BUDGET	\$0
	TOTAL ANTICIPATED REVENUE B	ASE RATE / RTS + NO	ONE SALES INCOME	\$1,120,928
	TOTAL COMBINED CUSTOMER IN	COME = BASE RATE	+ VOLUME INCOME	\$1,638,525
		T	STOMED INCOME	\$4 620 E2E
	TC	TAL COMBINED CU	STOWER INCOME	\$1,638,525
	тс	OTAL COMBINED CO	Budget Goal	\$1,638,525

Short Lived Assets - Equipment Replacement – Repair Replacement and Improvement

A replacement schedule should be developed that indicates those assets that will be replaced within the next 15 years (short lived assets) that will be **funded from system revenues**. The schedule will typically contain assets with a value of greater than \$1,000 dollars, or routinely recurring maintenance items. A couple of examples of these types of assets are: water tower paintings and chlorine pumps, well pumps and controls, raw sewage pumps, sanitary sewage pumps stations etc. Larger more long term items like water distribution piping, wells, water towers, standby generators. etc or items with a longer life expectancy of greater than 15 years, are typically included in a Capital Improvements program. See notes below in Capital Improvements

This schedule can also be expanded to include programmed maintenance or repair, making it a Repair & Replacement Schedule. The types of maintenance activities that can be included here are major, repairs, or items that occur on a non-yearly schedule or irregular schedule, such as a storage tank inspection done every five years and a tank overhaul (repaint, structural testing, cleaning) or leak detection every 3 years or a digester cleaning every ten years, or a well cleaning done every 5 years. If it occurs every year then it should be in the standard O & M budget. This Schedule does not replace the normal annual operation and maintenance budget. It merely reflects those elements that are major budget items that do NOT occur on an annual basis and thus are not in the typically O&M annual budget. These are generally items that constitute a major budget expenditure.

The schedule should include all of the recurring and non-recurring items for a 15 year period. The short lived asset Repair and Replacement Schedule should be updated annually..

It is absolutely critical that the items in the Repair and Replacement Schedule be entered into the rate setting process. These items must be funded out of system revenues, so they must be accounted for in the annual budget and in the rates. The Schedule will probably not be uniform from year to year in terms of amount of expenditure. To address this issue, the program will set an annual annuity payment to cover the Repair and Replacement Schedule expenses over the long term. Some years, the annual funding amount will be greater than that year's expenses, so money would go into the Repair and Replacement Reserve. Other years, the amount collected will be less than the expenses incurred, and the additional funding needed would come from the reserve account. The annual annuity set would have to be sufficient to cover all of the expenses over the 15 year period. This program becomes a living document and the annual funding amount should be adjusted as new equipment is purchased and the program is updated.

Blissfield Water EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

FIXED ASSET INVENTORY ASSET REPLACEMENT SCHEDULE										
FIXED ASSET INVENTORY		AGGET REPLACEMENT SCREDULE								
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR LAST REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	PERCENT CONSUMED	REPLACEMENT MONEY RESERVED ANNUALLY
Water Treatment Plant Filters	Will be done 2021	2021	10	-1	2031	11	\$100,000	110%	-10%	\$10,000
Clear Well cleaning and inspection	2020	2020	5	0	2025	5	\$3,000	100%	0%	\$600
					<u> </u> 					
					 				}	
					<u> </u> 	<u> </u>			<u> </u> 	
										<u> </u>
						<u> </u>			†	
									1	
					<u> </u> 	<u> </u>			<u> </u>	
					<u> </u>	<u> </u>			<u> </u>	
					<u> </u>	<u> </u>				
					<u> </u>					
			<u>i</u>	<u>i</u>	<u>i</u>	<u> </u>	i		<u> </u>	
						ļ				
					<u> </u> 	<u> </u>			<u> </u>	
				!	<u> </u>	!	\$103,000	105%	!	\$ 10,600

EQUIPM	MENT REPLACEMENT SHORT LIVED ASS	ETS						
			NG INCREASE	2.50%				
	CURRENT RESERVE BALANCE APPLIED TO T	HIS ACCOUNT - INCLUDE	S RRI BALANCE	\$0				
	AVG. INTEREST RATE IN SAVINGS							
	0.10%							
	ASSET REHAB	ANNUAL FUNDING	\$0					
	Annual Funding Applied t	to Budget / Rates	\$10,600					
	USDA RURAL DEVELOPMENT "RRI" ANNUAL RESERVE \$0							
	USDA R.D. BOND RESERVE LOAN 1 BECOMES AVAILA	ABLE FOR RRI IN YEAR OF	0					
	USDA R.D. LOAN 1 AN	INUAL BOND RESERVE(S)	\$ <u>0</u>					
	USDA R.D. BOND RESERVE LOAN 2 BECOMES AVAILA	ABLE FOR RRI IN YEAR OF	0					
	USDA R.D. LOAN 2 AN	INUAL BOND RESERVE(S)	\$ <u>0</u>					
YEAR	PURPOSE	ANNUAL REPLACEMENT EXPENDITURES WITH C.O.L.	ANNUAL FUNDING AMOUNT	RUNNING BALANCE				
2020	SEE EQUIPMENT LIST	\$0	\$ <u>10,600</u>	\$10,611				
2021	FOR ANNUAL EXPENDITURES	\$0	\$10,600	\$21,221				
2022		\$0	\$10,600	\$31,842				
2023	İ	\$0	\$10,600	\$42,474				
2024		\$0	\$10,600	\$53,117				
2025		\$3,375	\$10,600	\$60,395				
2026		\$0	\$10,600	\$71,055				
2027		\$0	\$10,600	\$81,726				
2028		\$0	\$10,600	\$92,408				
2029		\$0	\$10,600	\$103,100				
2030		\$3,750	\$10,600	\$110,054				
2031		\$127,500	\$10,600	(\$6,736)				
2032		\$0	\$10,600	\$3,857				
2033		\$0	\$10,600	\$14,461				
2034		\$0	\$10,600	\$25,075				
2035		\$4,125	\$10,600	\$31,575				
2036		\$0	\$10,600	\$42,207				
2037		\$0	\$10,600	\$52,849				
2038		\$0	\$10,600	\$63,502				
2039		\$0	\$10,600	\$74,165				
2040		\$4,500	\$10,600	\$80,340				
2041		\$152,500	\$10,600	(\$61,480)				
2042		\$0	\$10,600	(\$50,942)				
2043		\$0	\$10,600	(\$40,393)				
2044		\$0	\$10,600	(\$29,833)				
2045		\$4,875	\$10,600	(\$24,138)				
2046		\$0	\$10,600	(\$13,562)				
2047		\$0	\$10,600	(\$2,975)				
				\$0				

Blissfield Water	YEAR OF	2020				
CAPITAL IMPROVEMENT PROJECTS						
CAPITAL IMPROVEMENT ID	EV6/MEDE CENE	DATED EDOM				
CAI TIAL IIVII NOVEIVILINI IDI	LAS WEINE GEINE	.IXATED I IXOM				
NOTES						
					IS THIS	MONEY
CAPITAL PROJECT	DDIOC TT /	ESTIMATED	AMOUNT FUNDED	COMPLETE	YEAR	RESERVED
	PRIORITY	PROJECT COST	IN WATER BUDGET		FLEXIBLE?	ANNUALLY
NTP Improvements	A	\$725,640	\$181,410	2021	YES	\$181,410
I. Lane Street	В	\$332,000	\$83,000	2025	YES	\$16,600
Parkwood Street	C	\$168,700	\$42,175	2025	YES	\$8,435
Sherman Water Line	C	\$268,440	\$67,110	2025	YES	\$13,422
. Adrian Water Line	C	\$106,920	\$5,346	2025	YES	\$1,069
Cherry Street Water Line	C	\$229,440	\$57,360	2025	YES	\$11,472
New Water Tower	C	\$1,250,000	\$312,500	2030	YES	\$31,250
Blissfield Hwy Water Line	C	\$156,000	\$39,000	2030	YES	\$3,900
Monroe Street Water Line	C	\$186,000	\$46,500	2030	YES	\$4,650
Mt Vernon Dr. Loop	C	\$109,800	\$27,450	2030	YES	\$2,745
Driggs Rd / Wellsville Loop	C	\$450,000	\$112,500	2030	YES	\$11,250
Joy St / West Brooke Lane Loop	С	\$420,000	\$105,000	2030	YES	\$10,500
Quick St / Blissfield Hgts Loop	С	\$480,000	\$120,000	2030	YES	\$12,000
Automated Water Meter System	С	\$500,000	\$50,000	2035	YES	\$3,333
Replace Sand Cast Mains	С	\$3,800,000	\$950,000	2035	YES	\$63,333
)	C	\$0	\$0	0	YES	\$0
)	C	\$0	\$0	0	YES	\$0
)	С	\$0	\$0	0	YES	\$0
)	С	\$0	\$0	0	YES	\$0
)	С	\$0	\$0	0	YES	\$0
	TOTALS	\$9,182,940.00	\$2,199,351.00			

CAPITAL II	MPROVEMENT PROJEC	CTS					
				ANNUAL COST C	F LIVING INCREASE	2.00%	
CURRENT RESERVE BALANCE APPLIED TO CAPITAL IMPROVEMENTS							
		-				5 -	
				AVG. INTERES	ST RATE IN SAVINGS	0.00%	
			THIS COULD BE				
			FROM A LOAN				
			THAT GETS PAID				
			OFF	*******	TOTAL		
l		CIP	EXTRA ANNUAL	ANNUAL	COMBINED	RUNNING	
YEAR	PROJECT	EXPENDITURES	CIP FUNDING	AVERAGE	ANNUAL	BALANCE	
ILAN				BUDGET	ELINDING		
2020	SEE LIST	\$0	\$0	\$ <u>168,000</u>	\$168,000	\$168,000	
2021		\$185,038	\$0	\$168,000	\$168,000	\$150,962	
2022		\$0	\$0	\$168,000	\$168,000	\$318,962	
2023		\$0	\$0	\$168,000	\$168,000	\$486,962	
2024		\$0	\$0	\$168,000	\$168,000	\$654,962	
2025		\$280,490	\$0	\$168,000	\$168,000	\$542,472	
2026		\$0	\$0	\$168,000	\$168,000	\$710,472	
2027		\$0	\$0	\$168,000	\$168,000	\$878,472	
2028		\$0	\$0	\$168,000	\$168,000	\$1,046,472	
2029		\$0	\$0	\$168,000	\$168,000	\$1,214,472	
2030		\$915,540	\$0	\$168,000	\$168,000	\$466,932	
2031		\$0	\$0	\$168,000	\$168,000	\$634,932	
2032		\$0	\$0	\$168,000	\$168,000	\$802,932	
2033		\$0	\$0	\$168,000	\$168,000	\$970,932	
2034		\$0	\$0	\$168,000	\$168,000	\$1,138,932	
2035		\$1,300,000	\$0	\$168,000	\$168,000	\$6,932	
2036		\$0	\$0	\$168,000	\$168,000	\$174,932	
2037		\$0	\$0	\$168,000	\$168,000	\$342,932	
2038		\$0	\$0	\$168,000	\$168,000	\$510,932	
2039		\$0	\$0	\$168,000	\$168,000	\$678,932	
2040		\$0	\$0	\$168,000	\$168,000	\$846,932	
		•					

CAPITAL ITEM > WTP Improvements

Description of Project

Chlorine Residual monitoring, Sand Filters, HS Pumps, Nitrate Reduction, Clearwell, Geotube system

Justification

EGLE 2015 Sanitary Survey

Cost
705 040
725,640
725,640

ALLOCATION	Total
COST FUNDED BY BUDGET / RATES	\$ 181,410
COMPLETE IN YEAR OF ?	2021
YEARS TO PREPARE	1
COST PER YEAR	181,410
REMAINING COST	\$ 544,230

PERCENT FUNDED

25%

Funding Sources:	Total
COST FUNDED BY BUDGET / RATES	\$ 181,410
Other funding sources or from existing	
savings?	\$ 544,230
Loans	
Grants	
Etc	
Total Cost of Project	\$ 725,640

Complete in Year Of **2021** ?

Is Year Flexible Yes/No? YES Priority Rating "A,B,C" Α

Priority Rating

- A Immediate (Health & Safety, Structural)
- B Needed Benefit, But not Critical to operation of system
- C Long Term Goal

CAPITAL ITEM >	N.	Lane Stree	et						
Description of Project	1								
Street/Water/Sewer Proje	ct								
Lagation	7								
Location									
N. Lane Street									
Justification	7								
	1								
				PERCENT FUNDED		25.0%			
Itemized Breakdown		Cost		ALLOCATION		Total	Funding Sources:		Total
Water portion - N Lane	\$	154,300		COST FUNDED BY BUDGET / RATES	\$	83,000	COST FUNDED BY BUDGET / RATES \$	3	83,000
Water Portion - MacArthur	\$	177,700		COMPLETE IN YEAR OF ?		2025	Other funding sources or from existing savings \$		249,000
Water Fortion - WacArthur	Ψ	177,700	ŀ	YEARS TO PREPARE		5	Savings ψ	,	249,000
				COST PER YEAR		16,600.00			
			Į	REMAINING COST	\$	249,000	Total Cost of Project \$	<u> </u>	332,000
Total Cost of Project	\$	332,000					· _ ·		
Complete in Year Of		2025 ?	•	Priority Rating					
Is Year Flexible Yes/No?		YES		A - Immediate (Health & Safety, Structural)					
Priority Rating "A,B,C"		В		B - Needed Benefit, But not Critical to opera	tion	of system			
				C - Long Term Goal					

CAPITAL ITEM >	Parkwood St	reet					
Description of Project							
Street/Water/Sewer							
<u>Location</u>							
Parkwood street							
<u>Justification</u>							
		PERCENT FUNDED	2	25.0%		_	
Itemized Breakdown	Cost	ALLOCATION		Total	Funding Sources:		Total
Water portion	\$ 168,700	COST FUNDED BY BUDGET / RATES	\$	42,175	COST FUNDED BY RATES		42,175
		COMPLETE IN YEAR OF ?		2025	Other funding sources or from existing savings		126,525
		YEARS TO PREPARE COST PER YEAR	\$	5 8,435.00			
		REMAINING COST		126,525			
		-			Total Cost of Project	\$	168,700
Total Cost of Project	\$ 168,700						
Complete in Year Of Is Year Flexible? Priority Rating "A,B,C"	2025 YES C	Priority Rating A - Immediate (Health & Safety, Structural) B - Needed Benefit, But not Critical to opera		of system			
i flority Rating A,B,C		C - Long Term Goal					

CAPITAL ITEM >	Sherman W	ater Line			
Description of Project]				
Water Line Replaceme	nt				
<u>Location</u>]				
Sherman Street					
<u>Justification</u>					
		PERCENT FUNDED	25%		
Itemized Breakdown	Cost	ALLOCATION	Total	Funding Sources:	Total
Water Line	\$ 268,440	COST FUNDED BY BUDGET / RATES	\$ 67,110	COST FUNDED BY BUDGET / RATES	\$ 67,110
		COMPLETE IN YEAR OF ?	2025	Other funding sources	\$ 201,330
		YEARS TO PREPARE	5		
		COST PER YEAR REMAINING COST			
		REMAINING COST	\$ 201,330	Total Cost of Project	\$ 268,440
Total Cost of Project	\$ 268,440				· · · · · · · · · · · · · · · · · · ·
Complete in Year Of Is Year Flexible? Priority Rating "A,B,C"	YES	Priority Rating A - Immediate (Health & Safety, Structural) B - Needed Benefit, But not Critical to opera C - Long Term Goal	ition of system		

CAPITAL ITEM >	E. Ad	<mark>rian Wa</mark>	iter Line			
Description of Project						
Water Line Replacemen	t					
<u>Justification</u>						
Waiting for MDOT Project	ct					
			PERCENT FUNDED	5.0%		
Itemized Breakdown	Co	ost	ALLOCATION	Total	Funding Sources:	Total
Total Project	\$ 10	06,920	COST FUNDED BY BUDGET / RATES	\$ 5,346	COST FUNDED BY BUDGET / RATES	\$ 5,346
			COMPLETE IN YEAR OF ? YEARS TO PREPARE	2025 5	Other funding sources	\$ 101,574
			COST PER YEAR	\$ 1,069.20		
			REMAINING COST	\$ 101,574	Total Cost of Project	* 400 000
Total Cost of Project	¢ 1	06 020			Total Cost of Project	\$ 106,920
Total Cost of Project	φ 1	06,920				
Complete in Year Of		2025 ?	Priority Rating			
Is Year Flexible? Priority Rating "A,B,C"		S	A - Immediate (Health & Safety, Structural)B - Needed Benefit, But not Critical to operC - Long Term Goal			

CAPITAL ITEM >	Che	erry Street	W	ater Line			
Description of Project	1						
Water Line Replacement	•						
<u>Justification</u>							
				PERCENT FUNDED	25%		
Itemized Breakdown		Cost		ALLOCATION	Total	Funding Sources:	Total
Total Project	\$	229,440		COST FUNDED BY BUDGET / RATES	\$ 57,360	COST FUNDED BY BUDGET / RATES	\$ 57,360
				COMPLETE IN YEAR OF ? YEARS TO PREPARE	2025 5	Other funding sources	\$ 172,080
			l	COST PER YEAR	\$ 11,472.00		
				REMAINING COST	\$ 172,080	Tatal Coat of Discipat	000 440
Total Coat of Project	¢	220 440				Total Cost of Project	\$ 229,440
Total Cost of Project	Ψ	229,440					
Complete in Year Of		2025		Priority Rating			
Is Year Flexible?		YES		A - Immediate (Health & Safety, Structural)			
Priority Rating "A,B,C"		С		B - Needed Benefit, But not Critical to oper C - Long Term Goal	n of system		

CAPITAL ITEM >	New Water Towe	er			
Description of Project					
New Tower					
<u>Location</u>					
West Side of River Raisin					
<u>Justification</u>					
		PERCENT FUNDED	25%		
Itemized Breakdown	Cost	ALLOCATION	Total	Funding Sources:	Total
Total Project	\$ 1,250,000	COST FUNDED BY BUDGET / RATES	\$ 312,500	COST FUNDED BY BUDGET / RATES	\$ 312,500
		COMPLETE IN YEAR OF ?	2030	Other funding sources	\$ 937,500
		YEARS TO PREPARE COST PER YEAR	10 \$ 31,250.00		
		REMAINING COST			
			· · · · · · · · · · · · · · · · · · ·	Total Cost of Project	\$ 1,250,000
Total Cost of Project	\$ 1,250,000				
Complete in Year Of	2030	Priority Rating			
Is Year Flexible? Priority Rating "A,B,C"	YES C	A - Immediate (Health & Safety, Structural) B - Needed Benefit, But not Critical to opera C - Long Term Goal	ation of system		

CAPITAL ITEM >	Blis	sfield Hwy	Wa	iter Line			
Description of Project	7						
Water Line Replacement							
Location							
Blissfield Hwy							
Justification							
				PERCENT FUNDED	25%		
Itemized Breakdown		Cost		ALLOCATION	Total	Funding Sources:	Total
Itemized Breakdown Total Project	\$	Cost 156,000		ALLOCATION COST FUNDED BY BUDGET / RATES	\$ Total 39,000	Funding Sources: COST FUNDED BY BUDGET / RATES	\$ Total 39,000
	\$	0000		COST FUNDED BY BUDGET / RATES COMPLETE IN YEAR OF ?	39,000 2030		
	\$	0000		COST FUNDED BY BUDGET / RATES	39,000	COST FUNDED BY BUDGET / RATES	39,000
	\$	0000		COST FUNDED BY BUDGET / RATES COMPLETE IN YEAR OF ? YEARS TO PREPARE	\$ 39,000 2030 10	COST FUNDED BY BUDGET / RATES	39,000
	\$	0000		COST FUNDED BY BUDGET / RATES COMPLETE IN YEAR OF ? YEARS TO PREPARE COST PER YEAR	\$ 39,000 2030 10 3,900.00	COST FUNDED BY BUDGET / RATES	\$ 39,000
		0000		COST FUNDED BY BUDGET / RATES COMPLETE IN YEAR OF ? YEARS TO PREPARE COST PER YEAR	\$ 39,000 2030 10 3,900.00	COST FUNDED BY BUDGET / RATES Other funding sources	\$ 39,000

CAPITAL ITEM >	S N	Monroe Str	eet Water Line				
Description of Project	1						
Water Line Replacement							
<u>Location</u>]						
S. Monroe Street							
<u>Justification</u>	1						
			PERCENT FUNDED	25.0%			
Itemized Breakdown		Cost	ALLOCATION	Total	Funding Sources:		Total
Total Project	\$	186,000	COST FUNDED BY BUDGET / RATES	\$ 46,500	COST FUNDED BY BUDGET / RATES	\$	46,500
			COMPLETE IN YEAR OF ?	2030	Other funding sources	\$	139,500
			YEARS TO PREPARE COST PER YEAR	\$ 10 4,650.00			
			REMAINING COST	139,500			
					Total Cost of Project	¢	186,000
Total Cost of Project	\$	186,000			13.4. 333. 31 1 10,000	Ψ	100,000
Complete in Year Of Is Year Flexible? Priority Rating "A,B,C"		2030 YES C	Priority Rating A - Immediate (Health & Safety, Structural) B - Needed Benefit, But not Critical to oper C - Long Term Goal	n of system			

CAPITAL ITEM >	M	t Vernon	Dr. Loo)					
Description of Project									
Add Water Line									
<u>Location</u>									
Mt Vernon Street									
<u>Justification</u>]								
				PERCENT FUND	DED	25%			
Itemized Breakdown		Cost		ALLOCATION		Total	Funding Sources:		Total
Total Project	\$	109,800	COST	FUNDED BY BUDGET / RA	TES \$	27,450	COST FUNDED BY BUDGET / RATES	\$	27,450
				COMPLETE IN YEAR		2030	Other funding sources	_	82,350
				YEARS TO PREP. COST PER Y		10 2,745.00	Grants Loan		
				REMAINING C		82,350	Bonds		
					•		Total Cost of Project	\$	109,800
Total Cost of Project	\$	109,800							
Complete in Year Of Is Year Flexible?		2030 YES		diate (Health & Safety, Struct					
Priority Rating "A,B,C"		С		ed Benefit, But not Critical to Term Goal	operatio	n of system			

CAPITAL ITEM > Driggs Rd / Wellsville Loop								
Description of Project								
Add Water Line								
<u>Location</u>								
Driggs Road								
<u>Justification</u>								
			PERCENT FUNDED	25.0%				
Itemized Breakdown	Co	st	ALLOCATION	Total	Funding Sources:	Total		
Total Project	\$ 450	0,000	COST FUNDED BY BUDGET / RATES	\$ 112,500	COST FUNDED BY BUDGET / RATES	\$ 112,500		
			COMPLETE IN YEAR OF ?	2030	Other funding sources	\$ 337,500		
			YEARS TO PREPARE COST PER YEAR	10 \$ 11,250.00				
			REMAINING COST					
					Total Cost of Project	\$ 450,000		
Total Cost of Project	\$ 450	0,000				-		
Complete in Year Of Is Year Flexible? Priority Rating "A,B,C"	YE		Priority Rating A - Immediate (Health & Safety, Structural) B - Needed Benefit, But not Critical to opera C - Long Term Goal					

CAPITAL ITEM >	Joy St / Wes	t Brooke Lane Loop			
Description of Project					
Add Water Line					
<u>Location</u>					
Joy St and West Brooke Land	е				
<u>Justification</u>					
		PERCENT FUNDED	25%		
Itemized Breakdown	Cost	ALLOCATION	Total	Funding Sources:	Total
Total Project	\$ 420,000	COST FUNDED BY BUDGET / RATES	\$ 105,000	COST FUNDED BY BUDGET / RATES	\$ 105,000
		COMPLETE IN YEAR OF ?	2030	OTHER FUNDING SOURCES	\$ 315,000
		YEARS TO PREPARE	10		<u> </u>
		COST PER YEAR	•		
		REMAINING COST	\$ 315,000		
				Total Cost of Project	\$ 420,000
Total Cost of Project	\$ 420,000	Priority Rating			
	_	A - Immediate (Health & Safety, Structural)			
Complete in Year Of	2030	B - Needed Benefit, But not Critical to opera	tion of system		
Is Year Flexible?		C - Long Term Goal			
Priority Rating "A,B,C"	C				

CAPITAL ITEM >	Quick St / Blissfield Hgts Loop							
Description of Project								
Loop Water Main								
<u>Location</u>]							
Quick St / Blissfield Hgts.								
<u>Justification</u>								
		PERCENT FUNDED	25%					
Itemized Breakdown	Cost	ALLOCATION	Total	Funding Sources:	Total			
Total Project	\$ 480,000	COST FUNDED BY BUDGET / RATES	\$ 120,000	COST FUNDED BY BUDGET / RATES	\$ 120,000			
		COMPLETE IN YEAR OF ?	2030	OTHER FUNDING SOURCES	\$ 360,000			
		YEARS TO PREPARE COST PER YEAR	10 \$ 12,000.00					
		REMAINING COST						
				Total Cost of Project	\$ 480,000			
Total Cost of Project	\$ 480,000	Priority Rating			ψ 100,000			
		A - Immediate (Health & Safety, Structural)						
Complete in Year Of		B - Needed Benefit, But not Critical to opera	ation of system					
Is Year Flexible? Priority Rating "A,B,C"		C - Long Term Goal						

CAPITAL ITEM >	Automated Wat	er Meter System			
Description of Project					
Automated water meters					
Location					
Village wide					
<u>Justification</u>					
Labor saving			_		
		PERCENT FUNDED	5%		
Itemized Breakdown	Cost	ALLOCATION	Total	Funding Sources:	Total
Total Project	\$ 1,000,000	COST FUNDED BY BUDGET / RATES	\$ 50,000	COST FUNDED BY BUDGET / RATES	\$ 50,000
		COMPLETE IN YEAR OF ?	2035	Other funding sources	\$ 950,000
		YEARS TO PREPARE COST PER YEAR	\$ 3,333.33		
		REMAINING COST			
			_	Total Cost of Project	\$ 1,000,000
Total Cost of Project	\$ 1,000,000				
Complete in Year Of	2035	Priority Rating			
Is Year Flexible?	YES	A - Immediate (Health & Safety, Structural)			
Priority Rating "A,B,C"	С	B - Needed Benefit, But not Critical to opera C - Long Term Goal	ation of system		

CAPITAL ITEM >	Replace S	and (Cast Mains				
Description of Project]						
Replace old water lines							
Location							
Village Wide							
<u>Justification</u>							
			PERCENT FUNDED		25%		
Itemized Breakdown	Cost		ALLOCATION		Total	Funding Sources:	Total
Total Project	\$ 3,800,0	00	COST FUNDED BY BUDGET / RATES	\$	950,000	COST FUNDED BY BUDGET / RATES	\$ 950,000
			COMPLETE IN YEAR OF ? YEARS TO PREPARE		2035 15	Other funding sources	\$ 2,850,000
			COST PER YEAR REMAINING COST		63,333.33 2,850,000		
Total Cost of Project	\$ 3,800,0	00	KEIWAIINING COST	¥	2,030,000	Total Cost of Project	\$ 3,800,000

FIVE YEA	R INCREASE	<u> </u>													
Blissfield Blissfiel	Water d Water												_		
	LOANS, RES	ERVE FUNDING & O	THER EXPENSES	\$10.06					LOANS, RE	SERVE FUNDING &	OTHER EXPENSES	\$1.45			
	LABOR & OF	PERATIONS COST F	PER 3/4" METER	\$45.05					L	ABOR & OPERATIO	NS COST PER UNIT	\$4.55			
	MINUS	NON-OPERATING	EXTRA INCOME	\$0.00											
			TOTAL RATE	\$55.11				TOTAL RATE PER UNIT				\$6.00			
	Sug	gested annual incr	ease in percent	3.0%						Suggested annua	l increase in percent	3.0%			
	BASE RATE	E COST						1,000	GAL.						TOTAL
L/ YEAR	ABOR & OPE RATE	R. % INCREASE	\$ INCREASE	LABOR & OPER. RATE	TOTAL RATE	NON OPERATING INCOME	PROJECTED INCOME FIXED COST	% INCREASE	\$ INCREASE	LABOR & OPER. RATE	TOTAL RATE	NON OPERATING INCOME	PROJECTED INCOME CONSUMPTION	COMBINED INCOME	COMBINED INCOME
2021	\$45.05	3.0%	\$1.351	\$46.399	\$56.46	\$0	\$1,148,416	3.0%	\$0.1365	\$4.687	\$6.13	\$0	\$529,378	\$1,677,794	\$1,677,794
2022	\$46.40	3.0%	\$1.392	\$47.791	\$57.853	\$0	\$1,176,728	3.0%	\$0.1406	\$4.828	\$6.28	\$0	\$541,512	\$1,718,240	\$1,718,240
2023	\$47.79	3.0%	\$1.434	\$49.224	\$59.286	\$0	\$1,205,890	3.0%	\$0.1448	\$4.972	\$6.42	\$0	\$554,010	\$1,759,901	\$1,759,901
2024	\$49.22	3.0%	\$1.477	\$50.701	\$60.763	\$0	\$1,235,927	3.0%	\$0.1492	\$5.122	\$6.57	\$0	\$566,883	\$1,802,810	\$1,802,810
2025	\$50.70	3.0%	\$1.521	\$52.222	\$62.284	\$0	\$1,266,865	3.0%	\$0.1536	\$5.275	\$6.72	\$0	\$580,142	\$1,847,008	\$1,847,008
						IN	CREASE CALCULATION U	ISES ONLY LABOR	& OPERATIONS	COST -				·	

INCREASE RATES ANNUALLY

LOANS / BONDS / ARE NOT INCLUDED IN ANNUAL INCREASE. RESERVE FUNDING ALREADY HAS COST OF LIVING BUILT INTO REPLACEMENT SPREADSHEETS.

Customers are more likely to pay for rate increases if their rates are generally stable. Most systems know that the worst thing they can do is maintain a stable rate for many years, then increase it by 10 percent or more. A single, large increase can lead to "rate shock" and opposition to the increase. It is far better to increase rates by 2 percent per year for 5 years than 10 percent once every 5 years.

		1,000 GALLONS					Use this page to implem	nent a rate increas	se over a multiple		
lissfield W	ater		ı					year period, rather than	all at once.		
	N	IEW COST PER UNIT OF WATER	\$5.998								
	CU	IRRENT COST PER UNIT OF WATER	\$5.95								
CALCULATED INCREASE PER UNIT OF WATE			\$0.05	_							
	YEARS TO IMPL	EMENT RATE INCREASE	2								
	CALCULATED ST	TEP INCREASE PER UNIT OF WATER	\$0.02								
	NEW RATE FIRS	ST YEAR WITHOUT COLA	\$5.974]							
ANNUAI	L COST OF LIVING INCREASI	E % ON ENTIRE RATE INCLUDING DEBT	3.0%	COLA IS ON E	NTIRE RATE INC	CLUDING DEBT					
COST	OF LIVING ADJUSTMENT	ON ENTIRE RATE <u>INCLUDING DEBT</u>	\$0.179								
	NEW RATE	FIRST YEAR WITH COLA	\$6.153					3%		PROJECTED BUDGET O	COLINCREASE
ONSUMP	TION COST							575		ONLY ON OPERATIONA	
YEAR	% INCREASE	COST OF LIVING \$ INCREASE	STEP INCREASE	TOTAL INCREASE	PERCENT INCREASE	NEW COST	PROJECTED INCOME WATER SALES	PROJECTED BUDGET	PERCENT INCREASE ON O&M	DIFFERENCE	RUNNING TOTAL
1	3.0%	\$0.1792	\$0.02	\$0.20	3.4%	\$6.15	\$530,991	\$517,598		\$13,394	\$13,394
2	3.0%	\$0.1846	\$0.02	\$0.21	3.4%	\$6.36	\$548,993	\$529,378	\$11,781	\$19,615	\$33,009
3	3.0%	\$0.1909		\$0.19	3.0%	\$6.55	\$565,463	\$541,512	\$12,134	\$23,951	\$56,960
4	3.0%	\$0.1966		\$0.20	3.0%	\$6.75	\$582,402	\$554,010	\$12,498	\$28,392	\$85,352
		\$0.2025		\$0.20	3.0%	\$6.95	\$599,846	\$566,883	\$12,873	\$32,963	\$118,314

	RATE STEP INCREASE								ment a rate increase ov	er a multiple
Blissfield	d Water	NEW COST PER		l				year period, rather tha	n all at once.	
		\$55.11								
	CURRENT CO	ST per REU or 3/4" METE	R - PER INVOICE	\$49.18						
	CALCULAT	ED INCREASE PER INVO	ICE / 3/4" METER	\$5.93						
YEARS TO IMPLEMENT RATE INCREASE			5							
_		CALCULATED STEP INC	REASE PER RTS	\$1.19	<u>-</u> _					
	NEW	RATE FIRST YEAR WI	TH OUT COLA	\$50.37						
		ANNUAL COST OF LIV	ING INCREASE %	3.0%	COLA IS ON E	NTIRE RATE I	NCLUDING DEBT			
	COST OF LIVING	ADJUSTMENT ON ENTIRE RAT	TE INCLUDING DEBT	\$1.511	_					
		NEW RATE	FIRST YEAR	\$51.88				3%	PROJECTED BUDGET (C.O.L INCREASE
	FIXED COST				•				ONLY ON O&M & LAB	OR
YEAR	COST OF LIVING % INCREASE	COST OF LIVING \$ INCREASE	STEP INCREASE	TOTAL INCREASE	PERCENT INCREASE	NEW RATE	PROJECTED FIXED INCOME	PROJECTED FIXED BUDGET	DIFFERENCE	RUNNING TOTAL
1	3.0%	\$1.511	\$1.19	\$2.70	5.5%	\$51.88	\$1,055,181	\$1,120,928	(\$65,747)	(\$65,747)
2	3.0%	\$1.556	\$1.19	\$2.74	5.3%	\$54.62	\$1,110,956	\$1,148,416	(\$37,460)	(\$103,207)
3	3.0%	\$1.639	\$1.19	\$2.82	5.2%	\$57.44	\$1,168,405	\$1,176,728	(\$8,323)	(\$111,530)
4	3.0%	\$1.723	\$1.19	\$2.91	5.1%	\$60.35	\$1,227,577	\$1,205,890	\$21,687	(\$89,843)
5	3.0%	\$1.811	\$1.19	\$3.00	5.0%	\$63.35	\$1,288,525	\$1,235,927	\$52,597	(\$37,246)

Use this page to implement a rate increase over a multiple year period rather than a one time large increase. This table has the rate increase occurring over a XXXX year period, with an annual cost of living increase of XXXXX - SEE TAB 34 FOR LARGER METER DETAILS

YEAR OF 2020 ANNUAL STEP INCREASE - YEAR 1

	Entity # 1	Entity # 2	Entity # 3
	Blissfield Water	Out of Village	Greenplains
\$/GAL	\$6.15	\$12.31	\$4.24
METER SIZE	EW BASE RATE CHAP	RGES FOR EACH ENT	ITY PER METER SI
3/4	\$51.88	\$103.75	\$0.00
1	\$86.63	\$173.27	\$0.00
1 1/4	\$121.39	\$242.78	\$0.00
1 1/2	\$172.75	\$345.50	\$0.00
2	\$276.50	\$553.01	\$0.00
3	\$553.53	\$1,107.05	\$0.00
4	\$864.79	\$1,729.57	\$0.00
6	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	\$0.00

	Blissfield Water								
Year	BASE RATE	CONSUMPTION							
1	\$51.88	\$6.15							
2	\$54.62	\$6.36							
3	\$57.44	\$6.55							
4	\$60.35	\$6.75							
5	\$63.35	\$6.95							

ANNUAL STEP INCREASE - YEAR 2

	Entity # 1	Entity # 2	Entity # 3
	Blissfield Water	Out of Village	Greenplains
\$/GAL	\$6.36	\$12.72	\$4.38
METER SIZE	EW BASE RATE CHAP	RGES FOR EACH ENT	ITY PER METER SI
3/4	\$54.62	\$109.24	\$0.00
1	\$91.21	\$182.43	\$0.00
1 1/4	\$127.81	\$255.62	\$0.00
1 1/2	\$181.88	\$363.76	\$0.00
2	\$291.12	\$582.24	\$0.00
3	\$582.78	\$1,165.57	\$0.00
4	\$910.50	\$1,821.00	\$0.00

ANNUAL STEP INCREASE - YEAR 3

	Entity # 1	Entity # 2	Entity # 3
	Blissfield Water	Out of Village	Greenplains
\$/GAL	\$6.55	\$13.11	\$4.52
METER SIZE	EW BASE RATE CHAP	RGES FOR EACH ENT	ITY PER METER SIZ
3/4	\$57.44	\$114.89	\$0.00
1	\$95.93	\$191.86	\$0.00
1 1/4	\$134.42	\$268.83	\$0.00
1 1/2	\$191.29	\$382.57	\$0.00
2	\$306.17	\$612.35	\$0.00
3	\$612.92	\$1,225.84	\$0.00
4	\$957.58	\$1,915.16	\$0.00

ANNUAL STEP INCREASE - YEAR 4

	/ III III II	• · · · · · · · · · · · · · · · · · · ·	
	Entity # 1	Entity # 2	Entity # 3
	Blissfield Water	Out of Village	Greenplains
\$/GAL	\$6.75	\$13.50	\$4.65
METER SIZE	EW BASE RATE CHAP	RGES FOR EACH ENT	ITY PER METER SI
3/4	\$60.35	\$120.71	\$0.00
1	\$100.79	\$201.58	\$0.00
1 1/4	\$141.22	\$282.45	\$0.00
1 1/2	\$200.97	\$401.95	\$0.00
2	\$321.68	\$643.36	\$0.00
3	\$643.96	\$1,287.92	\$0.00
4	\$1,006.08	\$2,012.15	\$0.00

ANNUAL STEP INCREASE - YEAR 5

	Entity # 1	Entity # 2	Entity # 3
	Blissfield Water	Out of Village	Greenplains
\$/GAL	\$6.95	\$13.90	\$4.79
METER SIZE	EW BASE RATE CHAP	RGES FOR EACH ENT	ITY PER METER SIZ
3/4	\$63.35	\$126.70	\$0.00
1	\$105.79	\$211.59	\$0.00
1 1/4	\$148.24	\$296.47	\$0.00
1 1/2	\$210.95	\$421.90	\$0.00
2	\$337.65	\$675.30	\$0.00
3	\$675.93	\$1,351.87	\$0.00
4	\$1,056.03	\$2,112.05	\$0.00

YEAR OF 2020

ANNUAL STEP INCREASE			I	Blissfield Water	
	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 1			Blissfield Water		
\$/GAL	\$6.15	\$6.36	\$6.55	\$6.75	\$6.95
METER SIZE	NEW BASE RATE CHARGES PER				
3/4	\$51.88	\$54.62	\$57.44	\$60.35	\$63.35
1	\$86.63	\$91.21	\$95.93	\$100.79	\$105.79
1 1/4	\$121.39	\$127.81	\$134.42	\$141.22	\$148.24
1 1/2	\$172.75	\$181.88	\$191.29	\$200.97	\$210.95
2	\$276.50	\$291.12	\$306.17	\$321.68	\$337.65
3	\$553.53	\$582.78	\$612.92	\$643.96	\$675.93
4	\$864.79	\$910.50	\$957.58	\$1,006.08	\$1,056.03
6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10	\$0.00	\$0.00	STEP INCREASE	\$0.00	\$0.00

	Blissfield Water					
Year	BASE RATE	CONSUMPTION				
1	\$51.88	\$6.15				
2	\$54.62	\$6.36				
3	\$57.44	\$6.55				
4	\$60.35	\$6.75				
5	\$63.35	\$6.95				

	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 2		•	Out of Village		
\$/GAL	\$12.31	\$12.72	\$13.11	\$13.50	\$13.90
METER SIZE	NEW BASE RATE CHARGES PER METER SIZE				
3/4	\$103.75	\$109.24	\$114.89	\$120.71	\$126.70
1	\$173.27	\$182.43	\$191.86	\$201.58	\$211.59
1 1/4	\$242.78	\$255.62	\$268.83	\$282.45	\$296.47
1 1/2	\$345.50	\$363.76	\$382.57	\$401.95	\$421.90
2	\$553.01	\$582.24	\$612.35	\$643.36	\$675.30
3	\$1,107.05	\$1,165.57	\$1,225.84	\$1,287.92	\$1,351.87
4	\$1,729.57	\$1,821.00	\$1,915.16	\$2,012.15	\$2,112.05

	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 3			Greenplains		
\$/GAL	\$4.24	\$4.38	\$4.52	\$4.65	\$4.79
METER SIZE	NEW BASE RATE CHARGES PER METER SIZE				
3/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 4			0		
\$/GAL	\$6.15	\$6.36	\$6.55	\$6.75	\$6.95
METER SIZE	NEW BASE RATE CHARGES PER METER SIZE				
3/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 5			0		
\$/GAL	\$6.15	\$6.36	\$6.55	\$6.75	\$6.95
METER SIZE	NEW BASE RATE CHARGES PER METER SIZE				
3/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	YEAR - 1	YEAR - 2	YEAR - 3	YEAR - 4	YEAR - 5
ENTITY 6			0		
\$/GAL	\$6.15	\$6.36	\$6.55	\$6.75	\$6.95
METER SIZE	NEW BASE RATE CHARGES PER METER SIZE				
3/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1 1/2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	TYPICAL BILL USING STEP INCREASE YEAR 1 Blissfield Water					
METER	GALLONS	VOLUME	NEW	OLD	CHANGE	\$ PER 1,000 GAL. PERCENT
SIZE	USED	CHARGE	BILL	BILL	IN BILL	INCREASE
3/4	3,000	\$18.46	\$70.34	\$67.03	\$3.31	5%
3/4	7,000	\$43.07	\$94.95	\$90.83	\$4.12	5%
3/4	12,000	\$73.84	\$125.72	\$120.58	\$5.14	4%
3/4	15,000	\$92.30	\$144.18	\$138.43	\$5.75	4%
3/4	20,000	\$123.06	\$174.94	\$168.18	\$6.76	4%
1	50,000	\$307.66	\$394.30	\$366.36	\$27.94	8%
1.25	20,000	\$123.06	\$244.46	\$119.00	\$125.46	105%
1.5	150,000	\$922.98	\$1,095.73	\$1,015.85	\$79.88	8%
2	50,000	\$307.66	\$584.16	\$499.10	\$85.06	17%
3	100,000	\$615.32	\$1,168.85	\$1,013.01	\$155.84	15%
4	150,000	\$922.98	\$1,787.77	\$1,625.22	\$162.55	10%
6	265,106	\$1,631.26	\$1,631.26	\$1,577.38	\$53.88	3%
8	229,492	\$1,412.12	\$1,412.12	\$1,365.48	\$46.64	3%
10	1,500,000	\$9,229.84	\$9,229.84	\$8,925.00	\$304.84	3%
GALLONS IN	NCLUDED MIN BILL		0	0		

YPICAL BILL NEW RATES OUT OF VILLAGE - STEP INCREASE YR								
	Out of Village							
METER	GALLONS NEW OLD CHA							
SIZE	USED	BILL	BILL	IN BILL				
3/4	3,500	\$146.83	\$140.01	\$6.82				
3/4"	6,000	\$177.59	\$169.76	\$7.83				
3/4"	11,500	\$245.28	\$235.21	\$10.07				
3/4"	15,000	\$288.35	\$276.86	\$11.49				
3/4"	20,000	\$349.88	\$336.36	\$13.52				
1	50,000	\$788.59	\$732.72	\$55.87				
1.25	10,000	\$365.85	\$119.00	\$246.85				
1.5	25,000	\$653.16	\$544.20	\$108.96				
2	35,000	\$983.73	\$819.70	\$164.03				
3	35,000	\$1,537.78	\$1,252.52	\$285.26				
4	100,000	\$2,960.22	\$2,655.44	\$304.78				